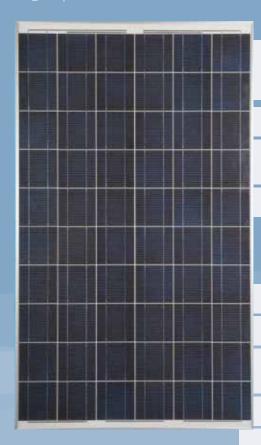


with the spirit of the sun

Performance • Reliability 220 W/60-156 p/2

asola GmbH Konrad-Zuse-Straße 25 99099 Erfurt / Germany Fon +49 (0) 361 • 24 14 25 - 10 Fax +49 (0) 361 • 24 14 25 - 90

www.asola-power.com



Cost Effective: Optimum Price-Performance Balance

Made in Germany

Built to German automotive industry's highest quality standards

Guaranteed high energy yields - high efficiency cells, max power tolerance of 2,5% and optimum edge distances

Durable and reliable – 25-years performance warranty*

* under special conditions of asola GmbH

Reliable Construction:

State of the art, crystalline high efficiency cells 156 mm

Encapsulation materials — made by world wide market leader

Metallic junction boxes for highest security and excellent cooling of by-pass diodes

Best of class cables and plug system

50 mm aluminum frame for mechanical load of 5.400 Pa acc. IEC 61215 / UL 1703

Quality Beyond Industry Standards

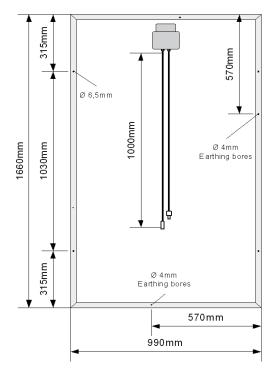
We exceed industry test standards by a factor of 2 to 3.

Available from your specialist dealer:





Technical data* $220\,W/60-156\,p/2$



Module technology

Glass foil laminate with 60 poly crystalline high efficiency solar cells "6" +		
weight 23 kg		
Low iron, tempered, safety solar glass		
Encapsulation with UV stable, super transparent ethylene vinyl acetate		
Certified Junction box: asola AL		
Cable/ plug: MC4 4 mm², alternative offers on request		
Special anodized aluminum frame, 50 mm screwed for max. Mechanical load 5400 Pascal		
Certified according to DIN IEC 61215 and IEC 61730		

Output class ** (W)	220	225	230
Open-circuit voltage U_{OC} (V)	36,77	36,90	37,11
Rated voltage U _{MPP} (V)	30,00	30,00	30,00
Short-circuit current I _{SC} (A)	7,85	8,05	8,08
Rated current I _{MPP} (A)	7,37	7,57	7,75
tolerances	+ 5 W + 2,3 %	+ 5 W + 2,2 %	+ 5 W + 2,2 %

Partial load at 300w/m²

Open-circuit voltage U _{OC} (V)	34,54	34,67	34,87
Rated voltage U _{MPP} (V)	29,43	29,43	29,43
Short-circuit current I _{SC} (A)	2,36	2,41	2,43
Rated current I _{MPP} (A)	2,21	2,27	2,32

Temperature coefficients

$P_{M} = -0.43 \%/K$	V _{OC} = -0,33 %/K	$I_{SC} = +0.054 \%/K$

^{*} Typical data

^{**}The calibration laboratories are securing an absolute accuracy of $\pm~2~\%$ for asola's calibration modules